

WHAT IS CLAIMED IS:

1. An electronic control unit comprising a case, a circuit board, an onboard type electronic component disposed on the circuit board in the case, a non-onboard type electronic component disposed outside the circuit board in the case, and a pin of a connector electrically connected to the circuit board disposed in the case, wherein

the circuit board is electrically connected to the non-onboard type electronic component,

the case is a thermally conductive metallic case that has a concavity for installing the non-onboard type electronic component,

a resinous frame that houses the non-onboard type electronic component is disposed inside the concavity, and

a metallic electrical conductor inserted into the resinous frame is electrically connected to the circuit board via a metallic foil.

2. The electronic control unit according to claim 1, wherein the thermally conductive metallic case, the resinous frame, and the connector are structured separately.

3. The electronic control unit according to claim 1, wherein a plurality of the non-onboard type electronic components are disposed in the case, and all of the non-onboard type electronic components are housed inside the resinous frame.

4. The electronic control unit according to claim 1, wherein the thermally conductive metallic case is an aluminum case.

5. The electronic control unit according to claim 1, further comprising a mounting brim that is molded integrally with the thermally conductive metallic case.

6. The electronic control unit according to claim 1, further comprising a thermally radiative window that is provided in the resinous frame.

7. The electronic control unit according to claim 1, wherein the electronic control unit is directly mounted to an engine.

8. An electronic control unit comprising:

a case that is made of a thermally conductive metallic and has a first portion of a bottom surface and a second portion of the bottom surface, and a concavity disposed in the second portion of the bottom surface;

a circuit board disposed in the first portion of the bottom surface;

an onboard type electronic component disposed on the circuit board;

a resinous frame disposed in the concavity; and

a non-onboard type electronic component housed in the resinous frame.

9. The electronic control unit according to claim 8, wherein the circuit board is electrically connected to the non-onboard type electronic component via a metallic foil.

10. The electronic control unit according to claim 8, further comprising a conjunctive pin that is electrically connected to the circuit board.